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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,356	01/12/2006	Shin Yazawa	283520US0PCT	7829
22850 7590 03/10/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			PESELEV, ELLI	
ALEAANDRIA, VA 22514			ART UNIT	PAPER NUMBER
			1623	
			NOTIFICATION DATE	DELIVERY MODE
			03/10/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
	10/564,356	YAZAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Elli Peselev	1623
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>January</u> This action is FINAL . 2b) ☑ This allowed the practice under the practice under the practice under the practice under the practice.	s action is non-final. ince except for formal matters, pre	
Disposition of Claims		
4) ☐ Claim(s) 21-31,54 and 56 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 21-31,54 and 56 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 9, 2008 has been entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21-31, 54 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Japanese Patent (11-60592) or the Japanese Patent (200-19185) in view of Edno et al (U.S. Patent No. 5,569,464).

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Each of the Japanese Patents discloses cholestanyl glycosides encompassed by the present claims but does not disclose said glycosides in a iposome formulation. However, Endo et al disclose that "liposomes encapsulating drugs have been actively developed for the purposes of stabilization of unstable drugs, slow release of drugs in living bodies and targeting of drugs to lesion sites: (column 1, lines 15-25). Endo et al further disclose liposomal compositions comprising a wide variety of drugs, phospholipids and a positive-charge providing substances such as cholesterol, aliphatic amines and fatty acids such as stearylamine and oleic acid (column 2, lines 30-56, column 4 and column 5, lines 1-15). Endo et al also teach that the drugs contained in liposomes are not limited and may be either hydrophilic or lipophilic (column 3, lines 56-59). Therefore, a person having ordinary skill in the art at the time the claimed invention was made would have been motivated to prepare formulations of drugs disclosed by the Japanese Patents in liposomal formulations as disclosed by Edno et al in order to improve stabilization of drugs and to slow release said drugs.

Applicant's arguments filed January 9, 2008 have been fully considered but they are not persuasive.

Applicant admits that a general increase in antitumor efficacy attributable to incorporating cholestanyl anticancer agents into a liposomal composition may be reasonably expected, due to the stabilization and controlled/targeting delivery thereof. However, applicant further argues that the compounds encompassed by the present claims a degree of enhanced anti-tumor activity which is not expected. This argument has not been found persuasive since it is not clear from the data presented that the use

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of any liposome will produce the results shown in Figures 1 and 2. Note that Example 1 on page 18 of the specification shows the use of dipalmitoylphosphatidylcholine and stearylame. It cannot be ascertained from the data presented if the use of a liposome comprised of any phospholipid and a positive-charge providing substance other than stearyamine, will produce unexpected results. Further, it is not clear from the Figures if the same dosage of drugs was used for comparison. Also, on page 5 of the specification, it is stated that Figures 1 and 2 show the cancer cell proliferation inhibitory effect of the compounds tested. However, Figures 1 and 2 appear to show concentrations of said compounds and not their antitumor effect. Therefore, the claimed compositions are still deemed prima facie obvious over the cited prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 8.00-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elli Peselev

/Elli Peselev/

Primary Examiner, Art Unit 1623